

JP. 09260214/pn

L5 ANSWER 1 OF 1 JAPIO COPYRIGHT 2001 JPO  
ACCESSION NUMBER: 1997-260214 JAPIO  
TITLE: ELECTRIC DOUBLE LAYER CAPACITOR  
INVENTOR: TSUSHIMA MANABU; MORIMOTO TAKESHI; HIRATSUKA KAZUYA;  
KAZUHARA MANABU; KAWASATO TAKESHI  
PATENT ASSIGNEE(S): ASahi GLASS CO LTD, JP (CO 000004)  
PATENT INFORMATION:

PATENT NO	KIND	DATE	ERA	MAIN IPC
-----				
***JP 09260214***		A19971003	Heisei	(6) H01G009-02

JP

APPLICATION INFORMATION

ST19N FORMAT: JP1996-63300 19960319  
ORIGINAL: JP08063300 Heisei  
SOURCE: PATENT ABSTRACTS OF JAPAN (CD-ROM), Unexamined  
Applications, Vol. 97, No. 10  
INT. PATENT CLASSIF.:  
MAIN: (6) H01G009-02

ABSTRACT:

PURPOSE: TO BE SOLVED: To lessen the internal resistance of an electric double layer capacitor and to form the electric double layer capacitor into an electric double layer capacitor of the density of a large capacity by a method wherein a separator is formed into a porous sheet, which is formed by bonding together electrically insulative inorganic compound powder in an organic electrolyte with a resistive resin and has a thickness of a specified value or lower.

CONSTITUTION: powder of the mean particle diameter of about 7. $\mu$ m is used as electrically insulative inorganic compound powder, PTEE powder is used as a resin, the ZrO<sub>2</sub> powder is kneaded with the PTEE powder at the mixing rate of the ZrO<sub>2</sub> powder with the PTEE powder of a ratio of 60wt.% to 40wt.% and a powder body obtainable by bonding together the ZrO<sub>2</sub> powder in an organic electrolyte with the resin is rolled into a porous sheet shape of a thickness of 200. $\mu$ m or thinner to form a separator. This separator is arranged in such a way as to superpose on one pair of electrodes, one side of which is a polarized electrode. Thereby, as the internal resistance of an electric double layer capacitor can be lessened and the double layer capacitor can be formed into one of the density of a large capacity, the electric double layer capacitor can be used as an electric double layer capacitor suitable for an ultra- large capacity of an electrostatic capacity of 50 to 20000F and a high current of an allowable current of 1 to 1000A.